

## Agricultural Waste Management

Keokuk County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8B: Judson-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
8C: Judson-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.91 0.02
13B: Olmitz-----	30	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
Vesser-----	28	Somewhat limited Depth to saturated zone	0.95	Somewhat limited Depth to saturated zone Flooding	0.95 0.40	Somewhat limited Depth to saturated zone Too steep for surface application	0.95 0.08
Zook-----	27	Very limited Depth to saturated zone Restricted permeability Flooding Leaching limitation	1.00 1.00 0.60 0.50	Very limited Depth to saturated zone Flooding Restricted permeability	1.00 1.00 1.00	Very limited Depth to saturated zone Restricted permeability Flooding	1.00 1.00 0.60
24D2: Shelby-----	95	Somewhat limited Slope Restricted permeability Too acid	0.63 0.41 0.02	Somewhat limited Slope Restricted permeability Too acid	0.63 0.31 0.07	Very limited Too steep for surface application Too steep for sprinkler application Restricted permeability	1.00 0.77 0.31

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too acid	0.07
24E2: Shelby-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.41	Restricted permeability	0.31	Too steep for sprinkler application	1.00
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.31
						Too acid	0.07
51: Vesser-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	0.60	Flooding	1.00	Flooding	0.60
51B: Vesser-----	95	Somewhat limited Depth to saturated zone	0.95	Somewhat limited Depth to saturated zone	0.95	Somewhat limited Depth to saturated zone	0.95
				Flooding	0.40	Too steep for surface application	0.08
54: Zook-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Restricted permeability	1.00	Flooding	1.00	Restricted permeability	1.00
		Flooding	0.60	Restricted permeability	1.00	Flooding	0.60
		Leaching limitation	0.50				
54+: Zook-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Restricted permeability	1.00	Flooding	1.00	Restricted permeability	1.00
		Flooding	0.60	Restricted permeability	1.00	Flooding	0.60

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56B: Cantril-----	90	Leaching limitation	0.50				
		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Too acid	0.02	Too acid	0.07	Too steep for surface application Too acid	0.08 0.07
56C: Cantril-----	90	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Too acid	0.02	Too acid	0.07	Too steep for surface application Too acid	0.91 0.07 0.02
						Too steep for sprinkler application	
65D2: Lindley-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited	
						Too steep for surface application	1.00
		Restricted permeability	0.41	Too acid	0.31	Too steep for sprinkler application	0.77
		Too acid	0.08	Restricted permeability	0.31	Too acid	0.31
65E: Lindley-----	95					Restricted permeability	0.31
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited	
						Too steep for surface application	1.00
		Restricted permeability	0.41	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.31	Too acid	0.31

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
65E2: Lindley-----	90					Restricted permeability	0.31
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited	
						Too steep for surface application	1.00
		Restricted permeability	0.41	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.31	Too acid	0.31
65F: Lindley-----	90					Restricted permeability	0.31
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited	
						Too steep for surface application	1.00
		Restricted permeability	0.41	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.31	Too acid	0.31
65F2: Lindley-----	90					Restricted permeability	0.31
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited	
						Too steep for surface application	1.00
		Restricted permeability	0.41	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.31	Too acid	0.31
65G: Lindley-----	95					Restricted permeability	0.31
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited	
						Too steep for surface application	1.00
		Restricted permeability	0.41	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.31	Too acid	0.31

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
74: Rubio-----	95	Restricted permeability	0.41	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.31	Too acid	0.31
						Restricted permeability	0.31
		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Leaching limitation	0.50	Too acid	0.07	Too acid	0.07
		Too acid	0.02				
75: Givin-----	95	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.41	Restricted permeability	0.31	Restricted permeability	0.31
75B: Givin-----	95	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.41	Restricted permeability	0.31	Restricted permeability	0.31
						Too steep for surface application	0.08
76B: Ladoga-----	95	Somewhat limited		Somewhat limited		Somewhat limited	
		Restricted permeability	0.41	Restricted permeability	0.31	Restricted permeability	0.31
						Too steep for surface application	0.08
76B2: Ladoga-----	90	Somewhat limited		Somewhat limited		Somewhat limited	
		Restricted permeability	0.41	Restricted permeability	0.31	Restricted permeability	0.31

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for surface application	0.08
76C: Ladoga-----	95	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.31	Somewhat limited Too steep for surface application Restricted permeability Too steep for sprinkler application	0.91 0.31 0.02
76C2: Ladoga-----	90	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.31	Somewhat limited Too steep for surface application Restricted permeability Too steep for sprinkler application	0.91 0.31 0.02
76D2: Ladoga-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.41	Restricted permeability	0.31	Too steep for sprinkler application Restricted permeability	0.77 0.31
80B: Clinton-----	95	Somewhat limited Restricted permeability Too acid	0.41 0.02	Somewhat limited Restricted permeability Too acid	0.31 0.07	Somewhat limited Restricted permeability Too steep for surface application Too acid	0.31 0.08 0.07
80C: Clinton-----	95	Somewhat limited		Somewhat limited		Somewhat limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
80C2: Clinton-----	90	Restricted permeability	0.41	Restricted permeability	0.31	Too steep for surface application	0.91
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.31
						Too acid	0.07
						Too steep for sprinkler application	0.02
		Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.31	Somewhat limited Too steep for surface application	0.91
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.31
						Too acid	0.07
						Too steep for sprinkler application	0.02
80D: Clinton-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.41	Restricted permeability	0.31	Too steep for sprinkler application	0.77
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.31
						Too acid	0.07
80D2: Clinton-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.41	Restricted permeability	0.31	Too steep for sprinkler application	0.77
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.31
						Too acid	0.07
87B: Colo-----	68	Very limited		Very limited		Very limited	

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Zook-----	32	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	0.60	Flooding	1.00	Flooding	0.60
		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	1.00	Flooding	1.00	Restricted permeability	1.00
		Flooding	0.60	Restricted permeability	1.00	Flooding	0.60
93D2: Shelby-----	60	Leaching limitation	0.50				
		Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited	
						Too steep for surface application	1.00
		Restricted permeability	0.41	Restricted permeability	0.31	Too steep for sprinkler application	0.77
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.31
						Too acid	0.07
Adair-----	40	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
						Too steep for sprinkler application	0.77
122: Sperry-----	95	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Leaching limitation	0.50				



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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
133: Colo-----	95	Very limited Depth to saturated zone Leaching limitation Flooding	1.00  0.70  0.60	Very limited Depth to saturated zone Flooding	1.00  1.00	Very limited Depth to saturated zone Flooding	1.00  0.60
133+: Colo-----	90	Very limited Depth to saturated zone Leaching limitation Flooding	1.00  0.70  0.60	Very limited Depth to saturated zone Flooding	1.00  1.00	Very limited Depth to saturated zone Flooding	1.00  0.60
133B: Colo-----	90	Very limited Depth to saturated zone Leaching limitation	1.00  0.70	Very limited Depth to saturated zone Flooding	1.00  0.40	Very limited Depth to saturated zone Too steep for surface application	1.00  0.08
163E: Fayette-----	90	Very limited Slope  Too acid	1.00  0.02	Very limited Slope  Too acid	1.00  0.07	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00  1.00  0.07
163E2: Fayette-----	90	Very limited Slope  Too acid	1.00  0.02	Very limited Slope  Too acid	1.00  0.07	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00  1.00  0.07
163F: Fayette-----	90	Very limited		Very limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
179D2: Gara-----	90	Slope	1.00	Slope	1.00	Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	1.00
						Too acid	0.07
		Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited	
						Too steep for surface application	1.00
179E: Gara-----	95	Restricted permeability	0.41	Restricted permeability	0.31	Too steep for sprinkler application	0.77
						Restricted	0.31
						permeability	
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited	
						Too steep for surface application	1.00
179E2: Gara-----	90	Restricted permeability	0.41	Restricted permeability	0.31	Too steep for sprinkler application	1.00
						Restricted	0.31
						permeability	
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited	
						Too steep for surface application	1.00
179F2: Gara-----	95	Restricted permeability	0.41	Restricted permeability	0.31	Too steep for sprinkler application	1.00
						Restricted	0.31
						permeability	
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited	
						Too steep for surface application	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
180: Keomah-----	95	Restricted permeability	0.41	Restricted permeability	0.31	Too steep for sprinkler application	1.00
						Restricted permeability	0.31
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Restricted permeability	0.74	Restricted permeability	0.60	Restricted permeability	0.60
		Too acid	0.08	Too acid	0.31	Too acid	0.31
220: Nodaway-----	90	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
Other-----	5	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70	Flooding	0.40	Too steep for surface application	0.08
222C: Clarinda-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.07	Too steep for surface application	0.91
		Too acid	0.02			Too acid	0.07
						Too steep for sprinkler application	0.02
222C2: Clarinda-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.07	Too steep for surface application	0.91

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
223C2: Rinda-----	90	Too acid	0.02			Too acid	0.07
						Too steep for sprinkler application	0.02
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
273C: Olmitz-----	95	Runoff limitation	0.40			Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
		Not limited		Not limited		Somewhat limited	
						Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
279: Taintor-----	95	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Leaching limitation	0.50	Restricted permeability	0.31	Restricted permeability	0.31
		Restricted permeability	0.41				
280: Mahaska-----	95	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Too acid	0.02	Too acid	0.07	Too acid	0.07
280B: Mahaska-----	90	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
281B: Otley-----	90	Too acid	0.02	Too acid	0.07	Too steep for surface application	0.08
						Too acid	0.07
		Somewhat limited Depth to saturated zone	0.46	Somewhat limited Depth to saturated zone	0.46	Too steep for surface application	0.08
		Too acid	0.02	Too acid	0.07	Too acid	0.07
281B2: Otley-----	90	Somewhat limited Depth to saturated zone	0.46	Somewhat limited Depth to saturated zone	0.46	Too steep for surface application	0.08
		Too acid	0.02	Too acid	0.07	Too acid	0.07
281C: Otley-----	95	Somewhat limited Depth to saturated zone	0.46	Somewhat limited Depth to saturated zone	0.46	Too steep for surface application	0.91
		Too acid	0.02	Too acid	0.07	Depth to saturated zone	0.46
						Too acid	0.07
						Too steep for sprinkler application	0.02
281C2: Otley-----	90	Somewhat limited Depth to saturated zone	0.46	Somewhat limited Depth to saturated zone	0.46	Too steep for surface application	0.91
		Too acid	0.02	Too acid	0.07	Depth to saturated zone	0.46
						Too acid	0.07
						Too steep for sprinkler application	0.02

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
281D2: Otley-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Depth to saturated zone	0.46	Depth to saturated zone	0.46	Too steep for sprinkler application	0.77
		Too acid	0.02	Too acid	0.07	Depth to saturated zone Too acid	0.46 0.07
293C: Chelsea-----	57	Very limited Filtering capacity Leaching limitation	1.00 0.45	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application Too steep for sprinkler application	1.00 0.91 0.02
Fayette-----	38	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid Too steep for sprinkler application	0.91 0.07 0.02
293D: Chelsea-----	57	Very limited Filtering capacity Slope Leaching limitation	1.00 0.63 0.45	Very limited Filtering capacity Slope	1.00 0.63	Very limited Filtering capacity Too steep for surface application Too steep for sprinkler application	1.00 1.00 0.77
Fayette-----	38	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293E: Chelsea-----	57	Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	0.77
						Too acid	0.07
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Slope	1.00	Slope	1.00	Too steep for surface application	1.00
		Leaching limitation	0.45			Too steep for sprinkler application	1.00
Fayette-----	38	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	1.00
						Too acid	0.07
293F: Chelsea-----	57	Very limited Slope	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Filtering capacity	1.00	Slope	1.00	Too steep for surface application	1.00
		Leaching limitation	0.45			Too steep for sprinkler application	1.00
Fayette-----	38	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	1.00
						Too acid	0.07
294C: Billett-----	65	Somewhat limited		Somewhat limited		Somewhat limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ladoga-----	35	Filtering capacity	0.01	Filtering capacity	0.01	Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
						Filtering capacity	0.01
		Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.31	Somewhat limited Too steep for surface application	0.91
294D: Billett-----	65	Filtering capacity	0.01	Filtering capacity	0.01	Restricted permeability	0.31
						Too steep for sprinkler application	0.02
						Filtering capacity	0.01
		Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
Ladoga-----	35	Filtering capacity	0.01	Filtering capacity	0.01	Too steep for sprinkler application	0.77
						Filtering capacity	0.01
		Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.41	Restricted permeability	0.31	Too steep for sprinkler application	0.77
313F2: Gosport-----	95	Filtering capacity	0.01	Filtering capacity	0.01	Restricted permeability	0.31
						Filtering capacity	0.01
		Very limited Slope	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00



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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
319E: Dunbarton-----	95	Restricted permeability	1.00	Slope	1.00	Too steep for surface application	1.00
		Droughty	1.00	Droughty	1.00	Too steep for sprinkler application	1.00
		Depth to saturated zone	0.46	Depth to saturated zone	0.46	Droughty	1.00
		Depth to bedrock	0.42	Depth to bedrock	0.42	Depth to saturated zone	0.46
		Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Droughty	1.00	Droughty	1.00
		Low adsorption	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Droughty	1.00	Low adsorption	1.00	Low adsorption	1.00
		Restricted permeability	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Slope	1.00	Slope	1.00	Too steep for sprinkler application	1.00
422: Amana-----	90	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.95	Flooding	1.00	Depth to saturated zone	0.95
		Flooding	0.60	Depth to saturated zone	0.95	Flooding	0.60
423D2: Bucknell-----	90	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.07	Too steep for sprinkler application	0.77
		Too acid	0.02			Too acid	0.07
424D: Lindley-----	52	Somewhat limited		Somewhat limited		Very limited	

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Keswick-----	43	Slope	0.63	Slope	0.63	Too steep for surface application	1.00
		Restricted permeability	0.41	Too acid	0.31	Too steep for sprinkler application	0.77
		Too acid	0.08	Restricted permeability	0.31	Too acid	0.31
						Restricted permeability	0.31
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77
						Too acid	0.31
424D2: Lindley-----	52	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.41	Too acid	0.31	Too steep for sprinkler application	0.77
		Too acid	0.08	Restricted permeability	0.31	Too acid	0.31
						Restricted permeability	0.31
Keswick-----	43	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
424E2: Lindley-----	48					Too acid	0.31
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.41	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.31	Too acid	0.31
Keswick-----	42					Restricted permeability	0.31
		Very limited Restricted permeability	1.00	Very limited Low adsorption	1.00	Very limited Too steep for surface application	1.00
		Slope	1.00	Restricted permeability	1.00	Too steep for sprinkler application	1.00
		Depth to saturated zone	1.00	Slope	1.00	Restricted permeability	1.00
		Too acid	0.56	Depth to saturated zone	1.00	Depth to saturated zone	1.00
				Too acid	1.00	Too acid	1.00
425D: Keswick-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77
						Too acid	0.31
425D2: Keswick-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
428B: Ely-----	95	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77
						Too acid	0.31
		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
						Too steep for surface application	0.08
430: Ackmore-----	90	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.95	Flooding	1.00	Depth to saturated zone	0.95
		Flooding	0.60	Depth to saturated zone	0.95	Flooding	0.60
453: Tuskeego-----	95	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	0.60	Flooding	1.00	Flooding	0.60
		Leaching limitation	0.50	Too acid	0.07	Too acid	0.07
		Too acid	0.02				
520: Coppock-----	95	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	0.60	Flooding	1.00	Flooding	0.60
520B: Coppock-----	95	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
570C: Nira-----	95	Somewhat limited Depth to saturated zone	0.46	Flooding	0.40	Too steep for surface application	0.08
				Somewhat limited Depth to saturated zone	0.46	Somewhat limited	
						Too steep for surface application	0.91
						Depth to saturated zone	0.46
570C2: Nira-----	95	Somewhat limited Depth to saturated zone	0.46	Somewhat limited Depth to saturated zone	0.46	Too steep for sprinkler application	0.02
						Too steep for surface application	0.91
						Depth to saturated zone	0.46
571C2: Hedrick-----	89	Very limited Restricted permeability Depth to saturated zone	1.00 0.46	Very limited Restricted permeability Depth to saturated zone	1.00 0.46	Too steep for sprinkler application	0.02
						Too steep for surface application	0.91
						Depth to saturated zone	0.46
571D2: Hedrick-----	90	Very limited Restricted permeability Slope	1.00 0.63	Very limited Restricted permeability Slope	1.00 0.63	Too steep for surface application	1.00
						Restricted	1.00
						permeability	

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
572C2: Inton-----	90	Depth to saturated zone	0.46	Depth to saturated zone	0.46	Too steep for sprinkler application	0.77
						Depth to saturated zone	0.46
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	0.46	Depth to saturated zone	0.46	Too steep for surface application	0.91
						Depth to saturated zone	0.46
572D2: Inton-----	90					Too steep for sprinkler application	0.02
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Restricted permeability	1.00
		Depth to saturated zone	0.46	Depth to saturated zone	0.46	Too steep for sprinkler application	0.77
						Depth to saturated zone	0.46
587: Chequest-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	0.60	Flooding	1.00	Flooding	0.60
		Restricted permeability	0.41	Restricted permeability	0.31	Restricted permeability	0.31
		Too acid	0.02	Too acid	0.07	Too acid	0.07
587+: Chequest-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	0.60	Flooding	1.00	Flooding	0.60
		Restricted permeability	0.41	Restricted permeability	0.31	Restricted permeability	0.31

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Too acid	0.02	Too acid	0.07	Too acid	0.07
687B: Watkins-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
688: Koszta-----	90	Very limited Depth to saturated zone Too acid	1.00 0.02	Very limited Depth to saturated zone Too acid	1.00 0.07	Very limited Depth to saturated zone Too acid	1.00 0.07
722: Nodaway-----	36	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
Ackmore-----	32	Somewhat limited Depth to saturated zone Flooding	0.95 0.60	Very limited Flooding Depth to saturated zone	1.00 0.95	Somewhat limited Depth to saturated zone Flooding	0.95 0.60
Vesser-----	22	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
730B: Nodaway-----	46	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
Coppock-----	27	Somewhat limited Depth to saturated zone	0.95	Somewhat limited Depth to saturated zone Flooding	0.95 0.40	Somewhat limited Depth to saturated zone Too steep for surface application	0.95 0.08
Cantril-----	17	Somewhat limited Depth to saturated zone Too acid	0.95 0.02	Somewhat limited Depth to saturated zone Flooding Too acid	0.95 0.40 0.07	Somewhat limited Depth to saturated zone Too steep for surface application Too acid	0.95 0.08 0.07

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
779: Kalona-----	95	Very limited Depth to saturated zone Restricted permeability	1.00  0.41	Very limited Depth to saturated zone Restricted permeability	1.00  0.31	Very limited Depth to saturated zone Restricted permeability	1.00  0.31
792C2: Armstrong-----	90	Very limited Restricted permeability Depth to saturated zone	1.00  1.00	Very limited Restricted permeability Depth to saturated zone	1.00  1.00	Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too steep for sprinkler application	1.00  1.00  0.91  0.02
792D2: Armstrong-----	95	Very limited Restricted permeability  Depth to saturated zone Slope	1.00  1.00 0.63	Very limited Restricted permeability  Depth to saturated zone Slope	1.00  1.00 0.63	Very limited Too steep for surface application Restricted permeability Depth to saturated zone Too steep for sprinkler application	1.00  1.00  1.00  0.77
795C2: Ashgrove-----	95	Very limited Restricted permeability Depth to saturated zone Runoff limitation  Too acid	1.00  1.00 0.40  0.08	Very limited Restricted permeability Depth to saturated zone Too acid	1.00  1.00 0.31	Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too acid Too steep for sprinkler application	1.00  1.00  0.91  0.31 0.02



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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
795D2: Ashgrove-----	82	Very limited Restricted permeability Depth to saturated zone Slope  Runoff limitation  Too acid	 1.00  1.00 0.63  0.40  0.08	Very limited Restricted permeability Depth to saturated zone Slope  Too acid	 1.00  1.00 0.63  0.31	Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too steep for sprinkler application Too acid	 1.00  1.00 1.00  0.77  0.31
822D2: Lamoni-----	90	Very limited Restricted permeability  Depth to saturated zone Slope  Too acid	 1.00  1.00 0.63  0.02	Very limited Restricted permeability  Depth to saturated zone Slope  Too acid	 1.00  1.00 0.63  0.07	Very limited Too steep for surface application Restricted permeability Depth to saturated zone Too steep for sprinkler application Too acid	 1.00  1.00 1.00  0.77  0.07
876B: Ladoga-----	90	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.31	Somewhat limited Restricted permeability Too steep for surface application	0.31 0.08
876C2: Ladoga-----	90	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.31	Somewhat limited Too steep for surface application Restricted permeability Too steep for sprinkler application	0.91 0.31 0.02

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
876D2: Ladoga-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.41	Restricted permeability	0.31	Too steep for sprinkler application	0.77
						Restricted permeability	0.31
880B: Clinton-----	95	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.31	Somewhat limited Restricted permeability	0.31
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.08
						Too acid	0.07
880C2: Clinton-----	95	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.31	Somewhat limited Too steep for surface application	0.91
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.31
						Too acid	0.07
						Too steep for sprinkler application	0.02
880D2: Clinton-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.41	Restricted permeability	0.31	Too steep for sprinkler application	0.77
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.31
						Too acid	0.07
881B: Otley-----	95	Somewhat limited Depth to saturated zone	0.46	Somewhat limited Depth to saturated zone	0.46	Somewhat limited Depth to saturated zone	0.46

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Too acid	0.02	Too acid	0.07	Too steep for surface application Too acid	0.08 0.07
911B: Colo-----	57	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding Too steep for surface application	1.00 0.60 0.01
Ely-----	38	Somewhat limited Depth to saturated zone	0.95	Somewhat limited Depth to saturated zone	0.95	Somewhat limited Depth to saturated zone Too steep for surface application	0.95 0.01
993D2: Gara-----	48	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.41	Restricted permeability	0.31	Too steep for sprinkler application Restricted permeability	0.77 0.31
Armstrong-----	42	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone Slope	1.00 0.63	Depth to saturated zone Slope	1.00 0.63	Restricted permeability Depth to saturated zone Too steep for sprinkler application	1.00 1.00 0.77
993E2: Gara-----	48	Very limited		Very limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Armstrong-----	42	Slope	1.00	Slope	1.00	Too steep for surface application	1.00
		Restricted permeability	0.41	Restricted permeability	0.31	Too steep for sprinkler application	1.00
						Restricted permeability	0.31
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Slope	1.00	Slope	1.00	Too steep for sprinkler application	1.00
994D2: Galland-----	65	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
						Depth to saturated zone	1.00
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
Douds-----	25	Runoff limitation	0.40			Too steep for sprinkler application	0.77
		Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
		Too acid	0.02	Too acid	0.07	Too acid	0.07
994E2: Galland-----	55	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Douds-----	35	Slope	1.00	Slope	1.00	Too steep for sprinkler application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Runoff limitation	0.40			Depth to saturated zone	1.00
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application Too acid	1.00 0.07
999F: Nordness-----	62	Very limited Slope	1.00	Very limited Droughty	1.00	Very limited Droughty	1.00
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Droughty	1.00	Slope	1.00	Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
Eleva-----	23	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Droughty	1.00	Droughty	1.00	Too steep for sprinkler application	1.00
		Leaching limitation	0.45	Too acid	0.77	Droughty	1.00
		Depth to bedrock	0.42	Depth to bedrock	0.42	Too acid	0.77
		Too acid	0.22	Filtering capacity	0.01	Depth to bedrock	0.42
999G: Nordness-----	62	Very limited Slope	1.00	Very limited Droughty	1.00	Very limited Droughty	1.00
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Eleva-----	23	Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Droughty	1.00	Slope	1.00	Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
		Very limited Slope	1.00	Very limited Slope	1.00	Too steep for surface application	1.00
		Droughty	1.00	Droughty	1.00	Too steep for sprinkler application	1.00
1075: Givin-----	90	Leaching limitation	0.45	Too acid	0.77	Droughty	1.00
		Depth to bedrock	0.42	Depth to bedrock	0.42	Too acid	0.77
		Too acid	0.22	Filtering capacity	0.01	Depth to bedrock	0.42
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.41	Restricted permeability	0.31	Restricted permeability	0.31
1220: Nodaway-----	90	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
1279: Taintor-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.50	Restricted permeability	0.31	Restricted permeability	0.31
		Restricted permeability	0.41				
1280: Mahaska-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Too acid	0.02	Too acid	0.07	Too acid	0.07

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1315: Nodaway-----	57	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
Klum-----	38	Very limited Flooding Filtering capacity	1.00 0.01	Very limited Flooding Filtering capacity	1.00 0.01	Very limited Flooding Filtering capacity	1.00 0.01
5010: Pits, Sand And Gravel-----	100	Not rated		Not rated		Not rated	
5020: Pits And Dumps-----	100	Not rated		Not rated		Not rated	
5030: Pits, Limestone Quarries-----	100	Not rated		Not rated		Not rated	
5040: Orthents-----	100	Not rated		Not rated		Not rated	
5048: Aquents, Ponded, Frequently Flooded-	100	Not rated		Not rated		Not rated	

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
5060: Pits, Clay-----	100	Not rated		Not rated		Not rated	
5080: Orthents, Sanitary Landfill-----	100	Not rated		Not rated		Not rated	
6051: Vesser-----	95	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 1.00
6054: Zook-----	95	Very limited Depth to saturated zone Flooding Restricted permeability Leaching limitation	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding Restricted permeability	1.00 1.00 1.00	Very limited Depth to saturated zone Flooding Restricted permeability	1.00 1.00 1.00
6133: Colo-----	90	Very limited Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.70	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 1.00
6133+: Colo-----	90	Very limited Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.70	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 1.00



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Keokuk County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
6220: Nodaway-----	90	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
6315: Nodaway-----	57	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
Klum-----	38	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
		Filtering capacity	0.01	Filtering capacity	0.01	Filtering capacity	0.01
6422: Amana-----	89	Very limited Flooding Depth to saturated zone	1.00 0.95	Very limited Flooding Depth to saturated zone	1.00 0.95	Very limited Flooding Depth to saturated zone	1.00 0.95
6587: Chequest-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Restricted permeability	0.41	Restricted permeability	0.31	Restricted permeability	0.31
		Too acid	0.02	Too acid	0.07	Too acid	0.07
AW: Animal Waste-----		Not rated		Not rated		Not rated	
SL: Sewage Lagoon-----	100	Not rated		Not rated		Not rated	
W: Water-----	100	Not rated		Not rated		Not rated	